

AMENDMENTS TO THE DRAWINGS

Eleven (11) attached sheets of drawings include changes to Figs. 5, 6, 11, 14, 19, 22, 24, 27, 32, 35, and 38. The changes to these Figures are as follows.

Sheet 1 includes Fig. 5 – Please label the ordinate and abscissa of this figure.

Sheet 2 includes Fig. 6 – Please correct the spelling of “Polynomial” and “Determine”

Sheet 3 includes Fig. 11 – Please correct the spelling of “Polynomial” and “Determine”

Sheet 4 includes Fig. 14B – Please correct “does” to -- do --; and “tap” to -- taps --;

Sheet 5 includes Fig. 19B – Please correct “does” to -- do --; and “tap” to -- taps --;

Sheet 6 includes Fig. 22 – Please correct the spelling of “Polynomial” and “Determine”

Sheet 7 includes Fig. 24 – Please correct the spelling of “Polynomial”, “Determine”, and “Determining”;

Sheet 8 includes Fig. 27B – Please correct “does” to -- do --; and “tap” to -- taps --;

Sheet 9 includes Fig. 32B – Please correct “does to -- do --; “transiton” to -- transition --; and “tap” to -- taps --;

Sheet 10 includes Fig. 35 – Please correct the spelling of “Polynomial” and “Determine”;

Sheet 11 includes Fig. 38 – Please correct the spelling of “Polynomial” and “Determine”;

Attachment: Eleven (11) Replacement sheets

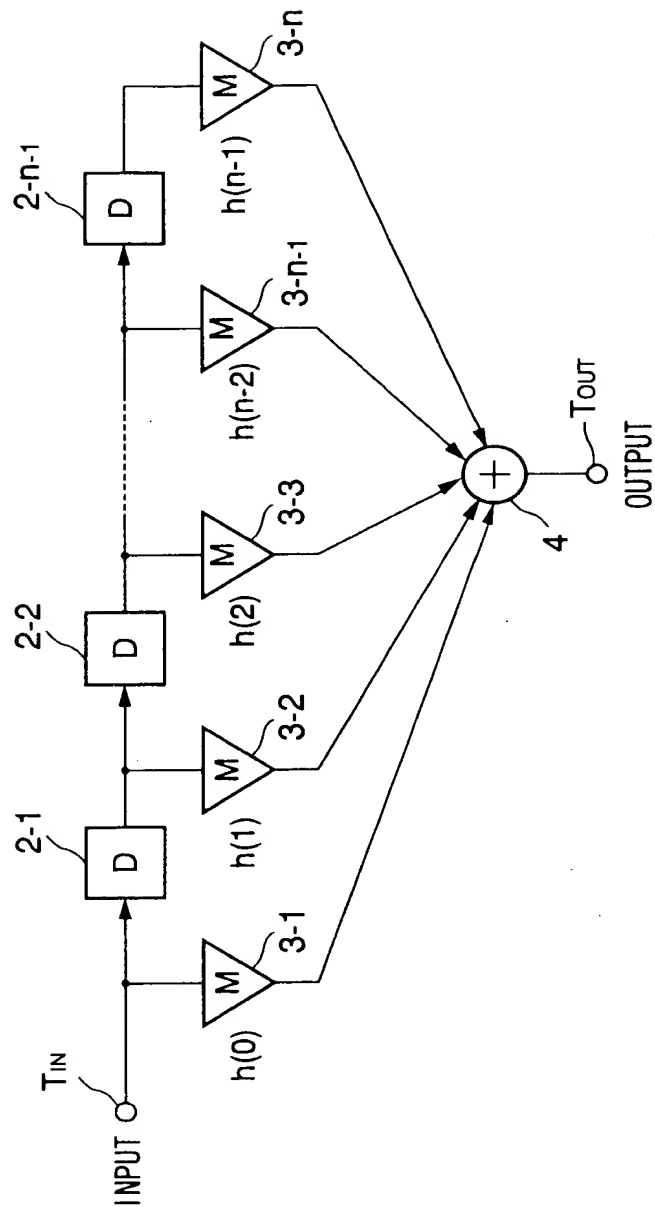


NOI 100-74500

RECEIVED
NOV 03 2004
Technology Center 2100

FIG.1

1





RECEIVED
NOV 03 2004
Technology Center 2100

FIG.2A

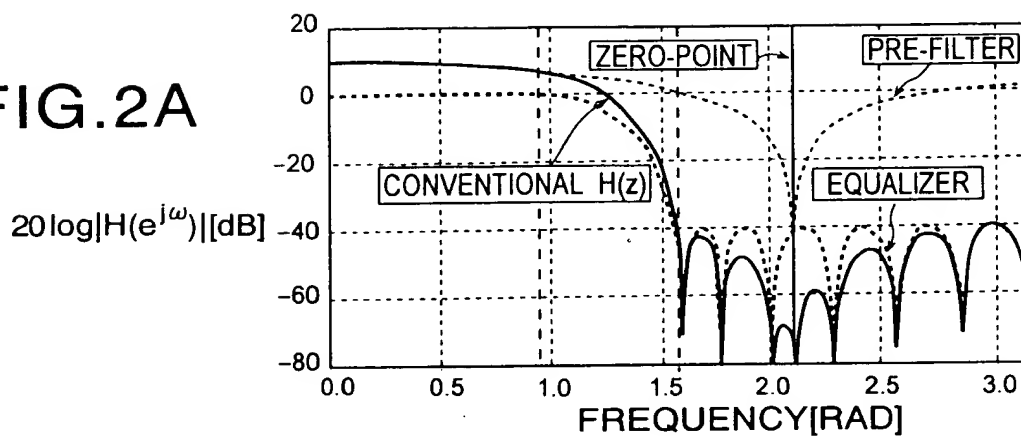


FIG.2B

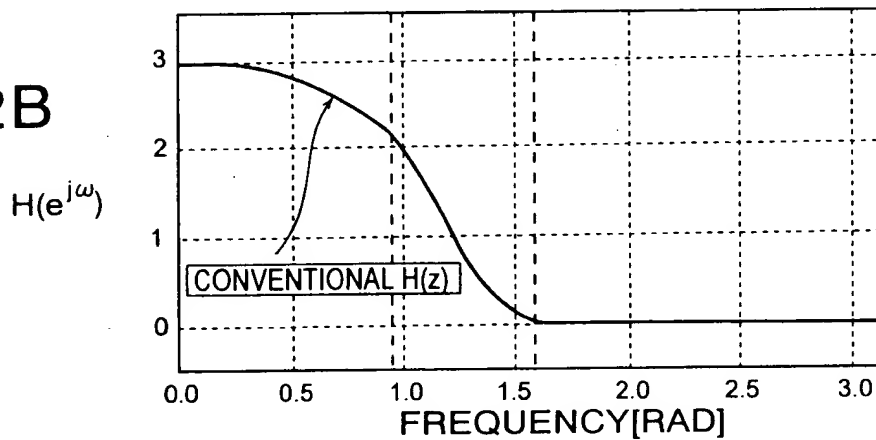
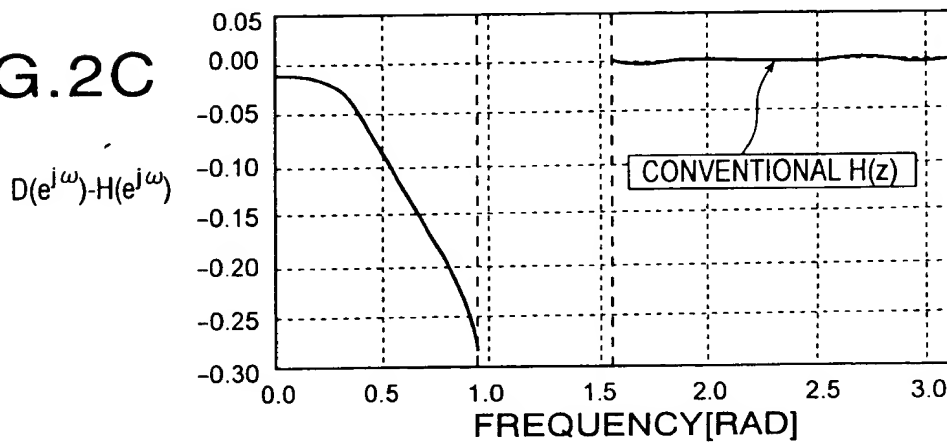


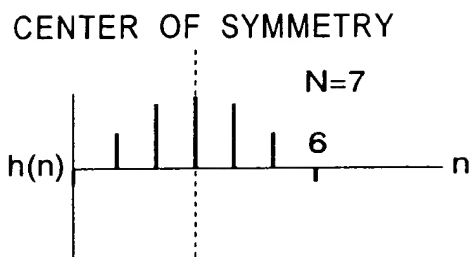
FIG.2C





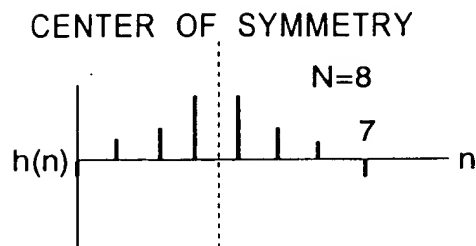
RECEIVED
NOV 03 2004
Technology Center 2100

FIG.3A



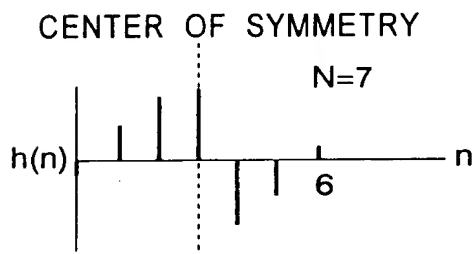
CASE 1: ODD NUMBER TAP,
EVEN SYMMETRY

FIG.3B



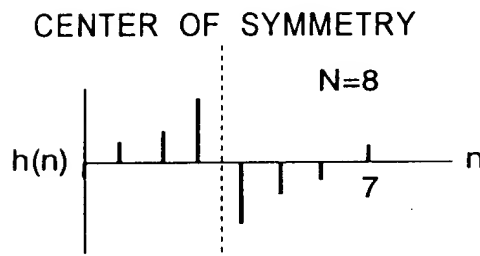
CASE 2: EVEN NUMBER TAP,
EVEN SYMMETRY

FIG.3C



CASE 3: ODD NUMBER TAP,
ODD SYMMETRY

FIG.3D



CASE 4: EVEN NUMBER TAP,
ODD SYMMETRY

FIG.4

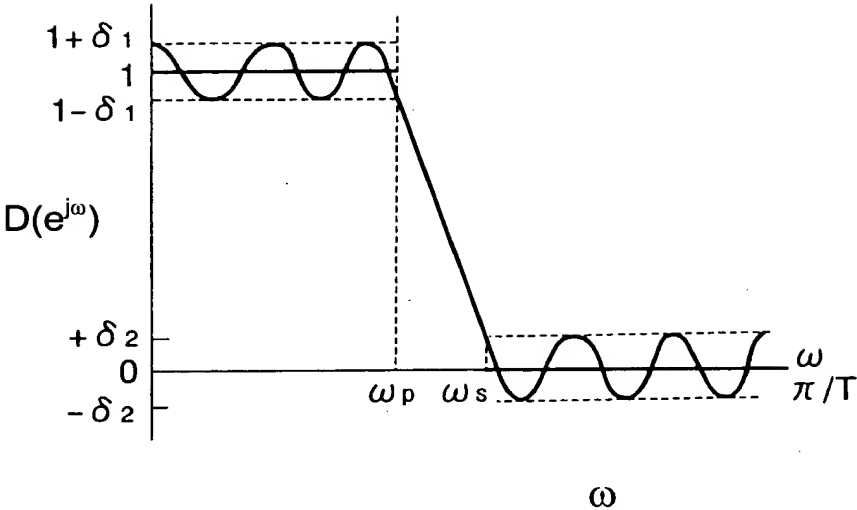
CASE	$Q(e^{j\omega})$	R
1	1	$(L-1)/2+1$
2	$\cos(\omega/2)$	$L/2-1+1$
3	$\sin(\omega)$	$(L-3)/2+1$
4	$\sin(\omega/2)$	$L/2-1+1$



REPLACEMENT

RECEIVED
NOV 03 2004
Technology Center 2100

FIG.5

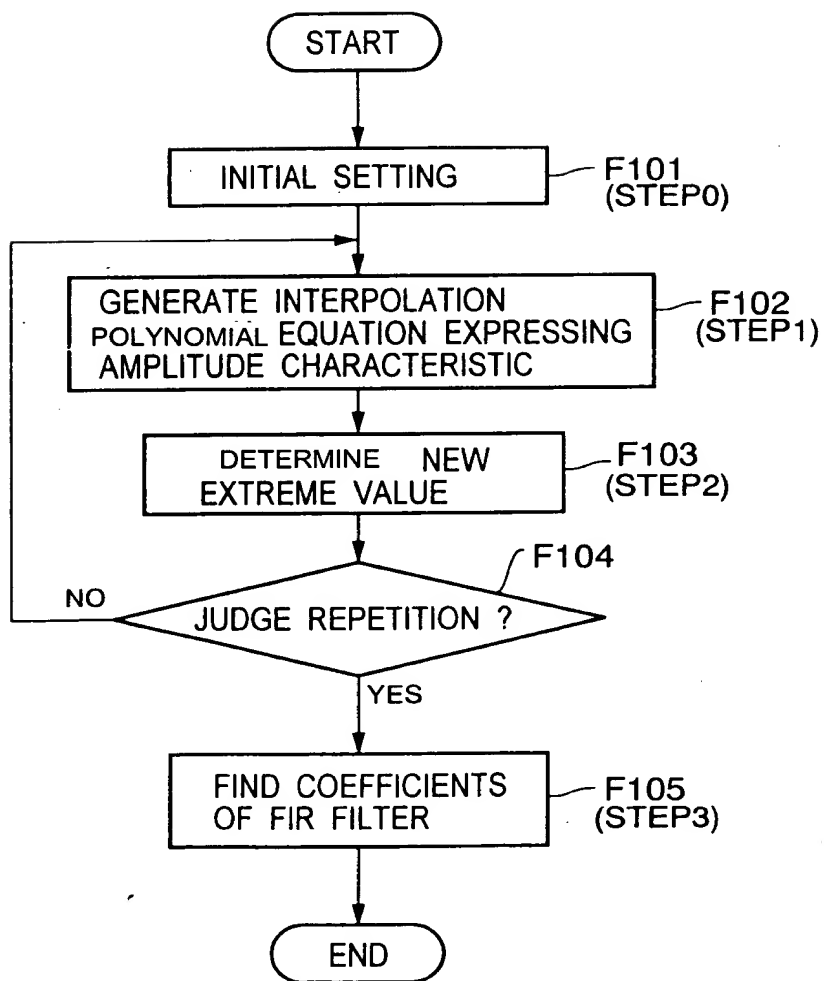




REPLACEMENT

RECEIVED
NOV 03 2004
Technology Center 2100

FIG.6





RECEIVED
NOV 03 2004
Technology Center 2100

FIG.7A

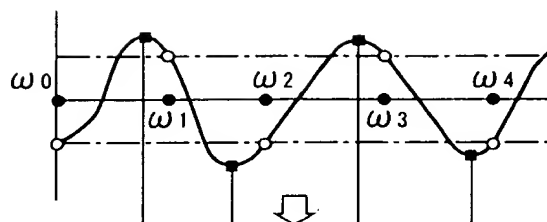


FIG.7B

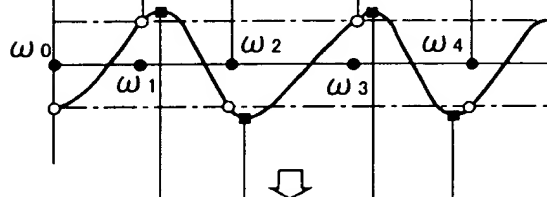


FIG.7C

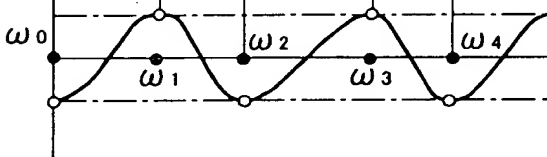
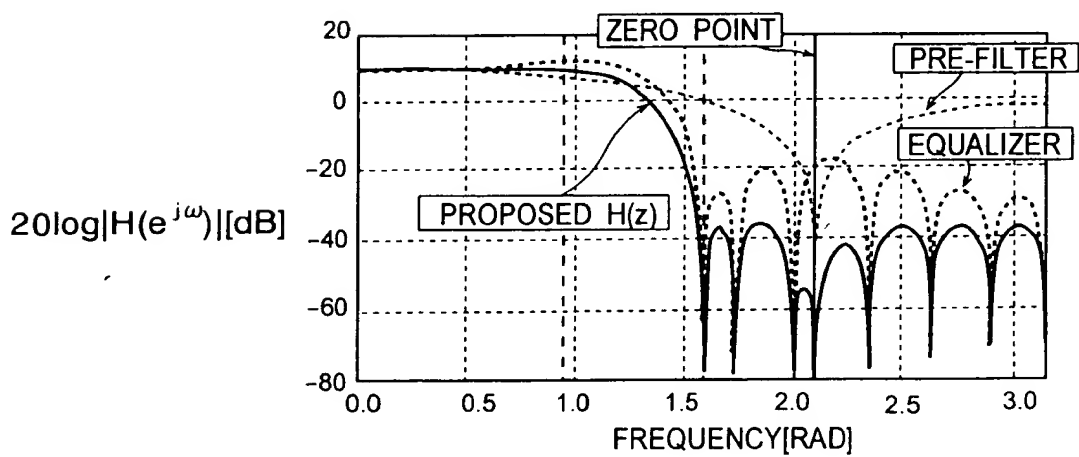


FIG.8





RECEIVED
NOV 03 2004
Technology Center 2100

FIG.9A

$20 \log|H(e^{j\omega})|[\text{dB}]$

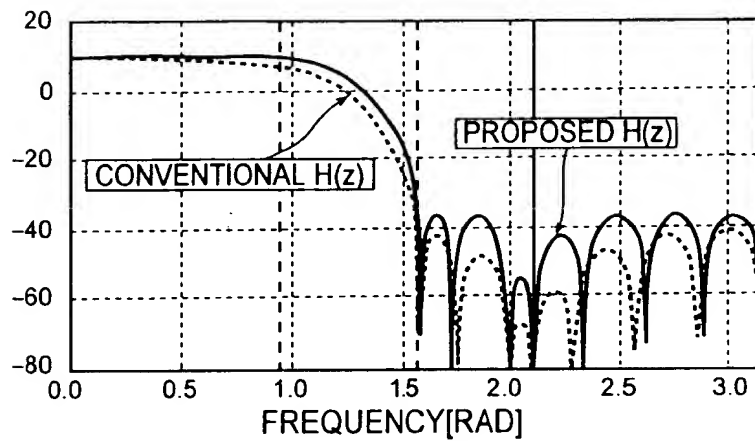
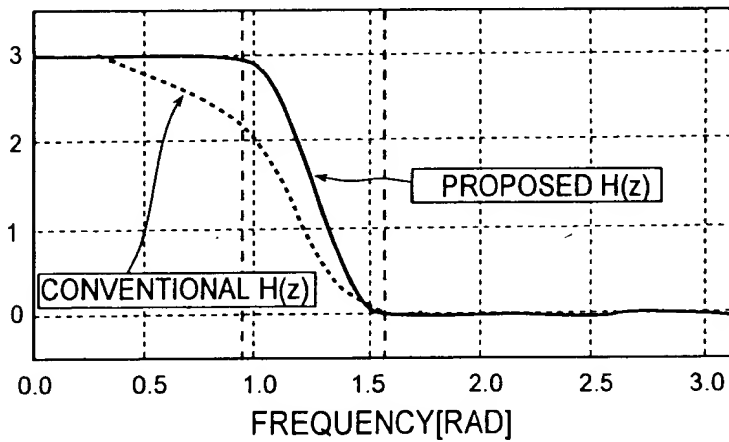


FIG.9B

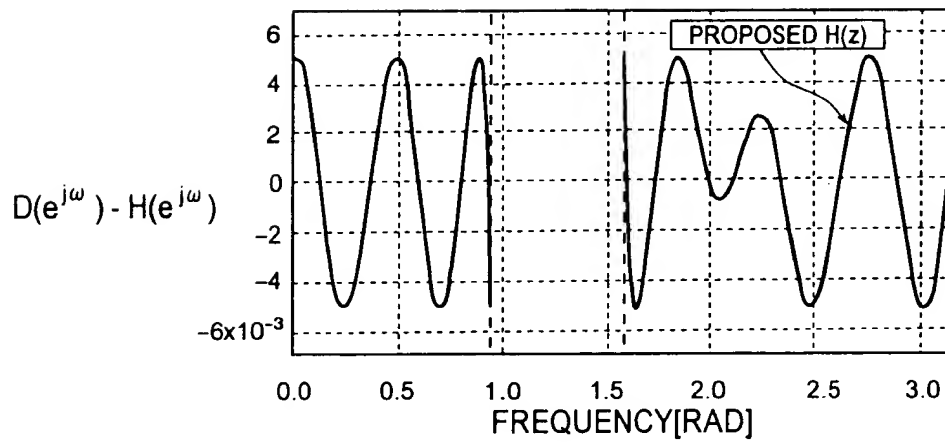
$H(e^{j\omega})$





RECEIVED
NOV 03 2004
Technology Center 2100

FIG.10

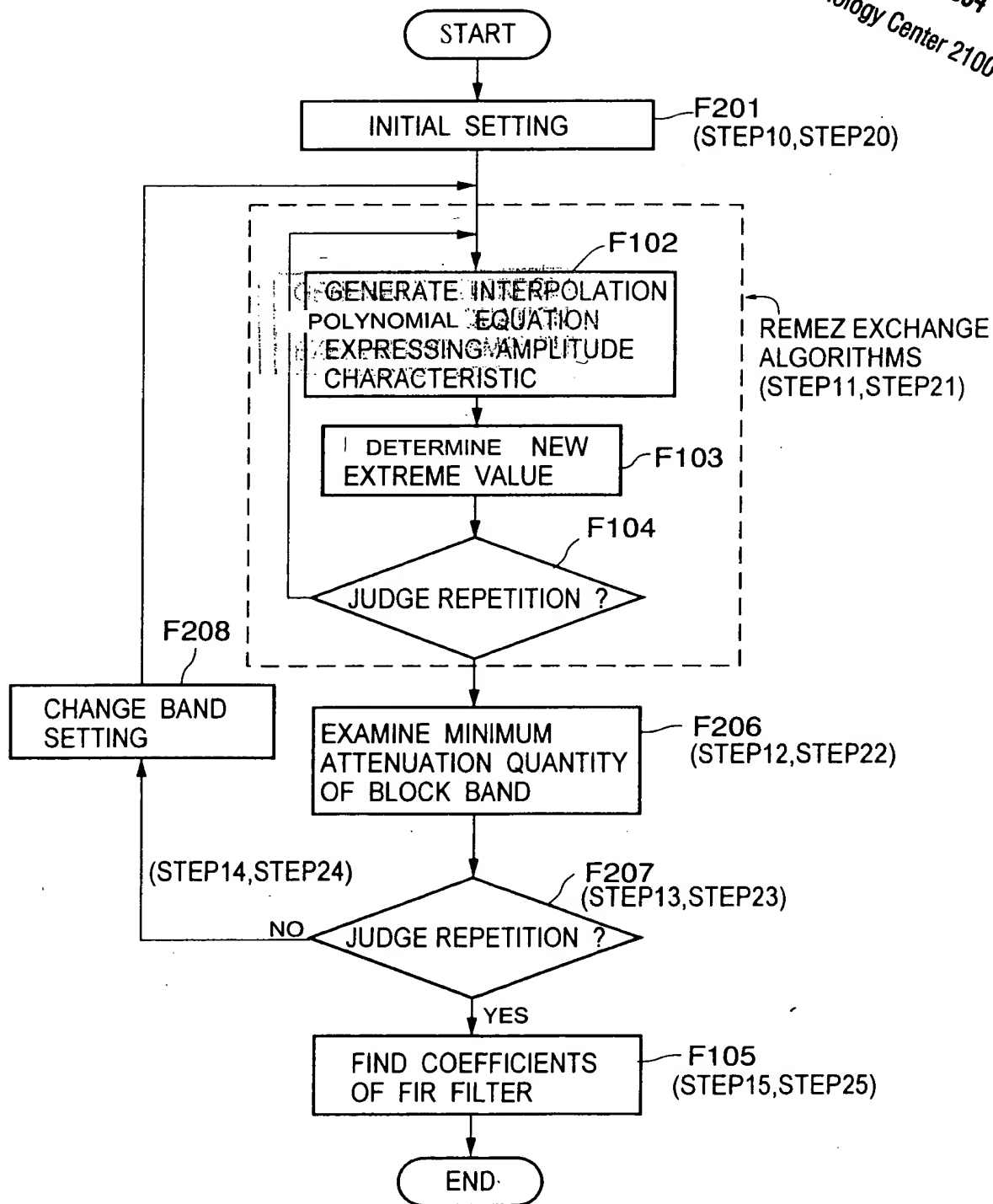




REPLACEMENT

RECEIVED
NOV 03 2004
Technology Center 2100

FIG.11





RECEIVED
NOV 03 2004
Technology Center 2100

FIG.12

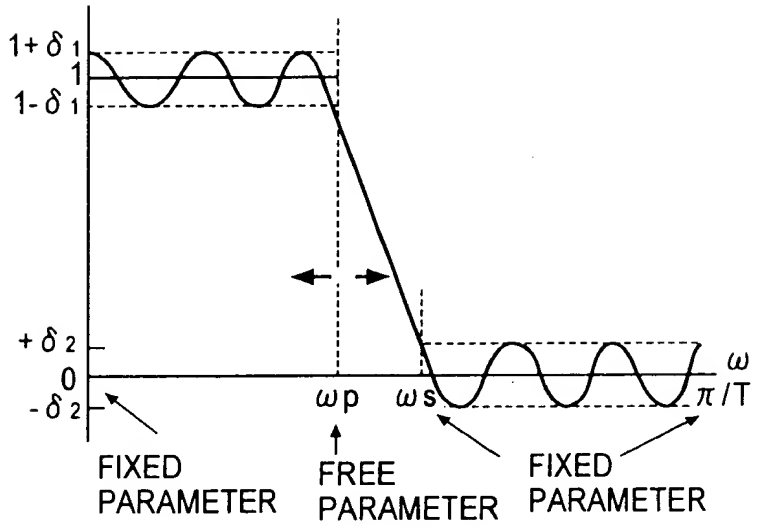
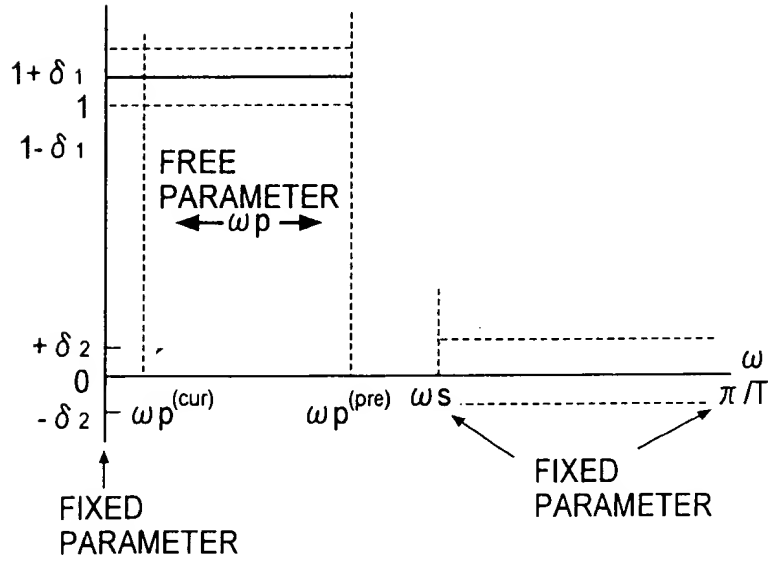


FIG.13





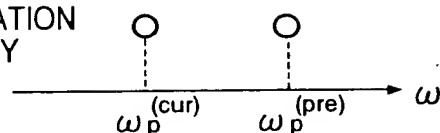
REPLACEMENT

RECEIVED
NOV 03 2004
Technology Center 2100

FIG.14A

BOTH SATISFY
→END

DESIGNATED
ATTENUATION
QUANTITY

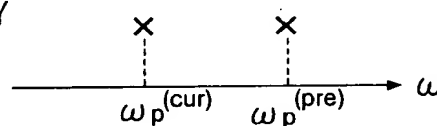


↓
FREQUENCY WITH LARGE ω_p
IS SOLUTION IN THIS CASE
SOLUTION IS $\omega_p^{(pre)}$

FIG.14B

BOTH DO NOT SATISFY
→NO SOLUTION→END

DESIGNATED
ATTENUATION
QUANTITY

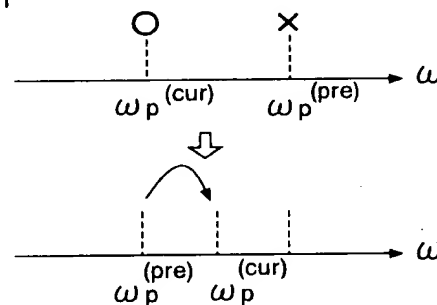


↓
NO SOLUTION IN THE
NUMBER OF TAPS IN
THAT IT DOES NOT
SATISFY ATTENUATION
QUANTITY

FIG.14C

ONLY ONE SIDE
SATISFIES
→FOR NEXT STEP

DESIGNATED
ATTENUATION
QUANTITY





RECEIVED
NOV 03 2004
Technology Center 2100

FIG.15A

ONLY ONE SIDE
SATISFIES
→FOR NEXT STEP

DESIGNATED
ATTENUATION
QUANTITY

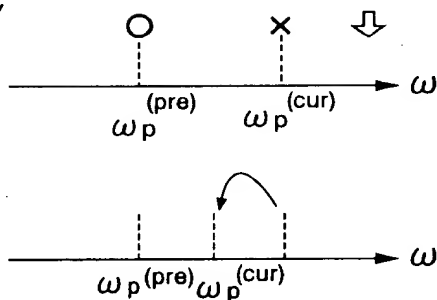
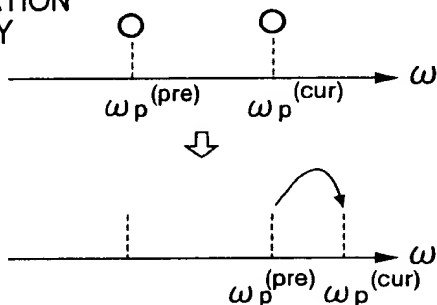


FIG.15B

BOTH SATISFY
→FOR NEXT STEP

DESIGNATED
ATTENUATION
QUANTITY





RECEIVED
NOV 03 2004
Technology Center 2100

FIG.16

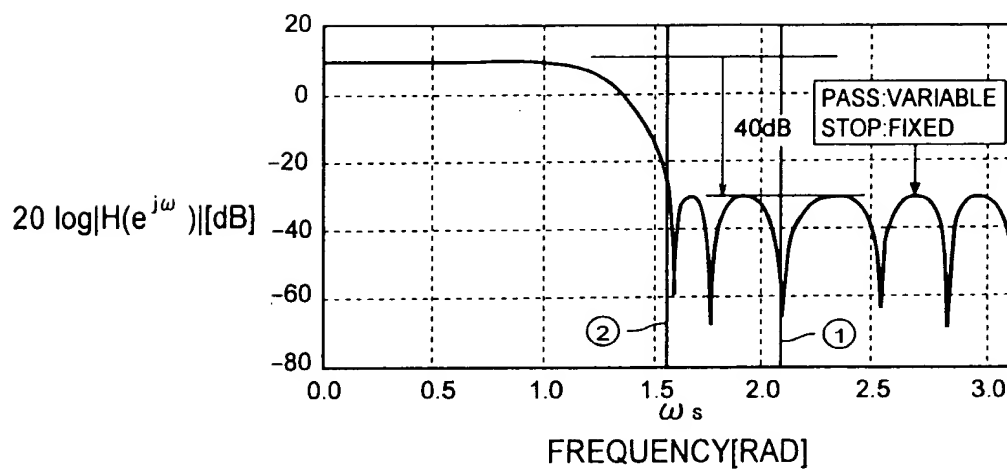




FIG.17

RECEIVED
NOV 03 2004
Technology Center 2100

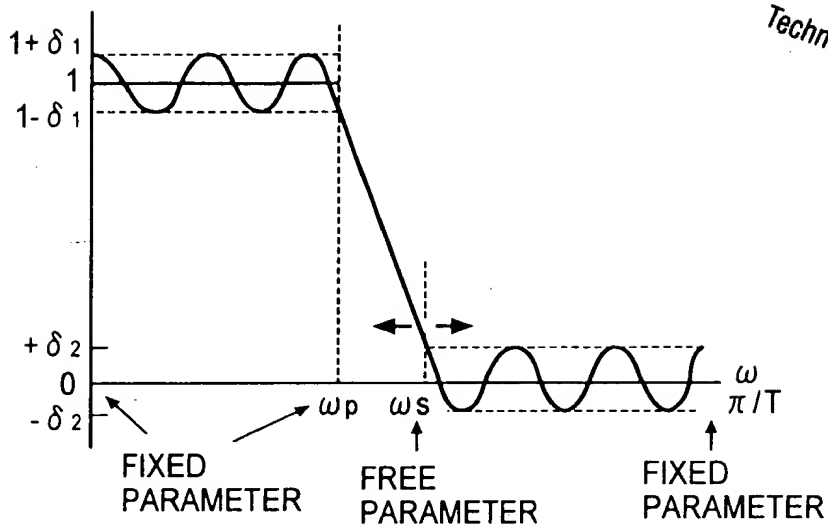
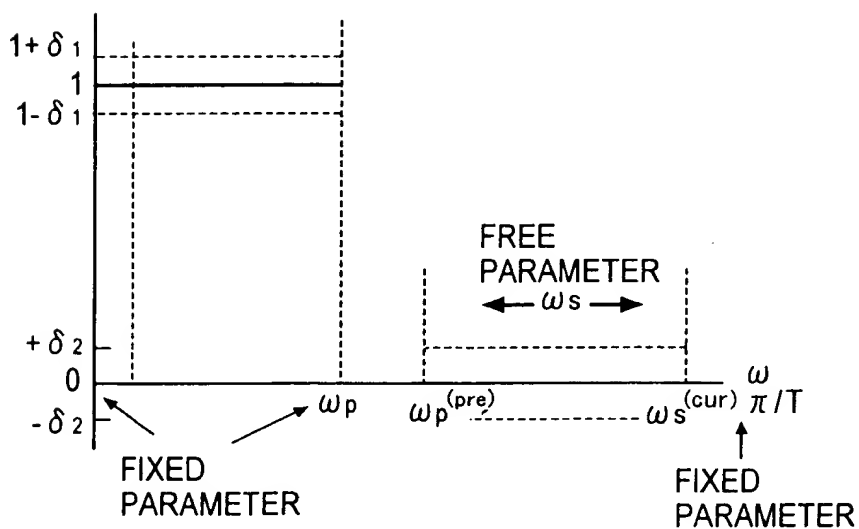


FIG.18



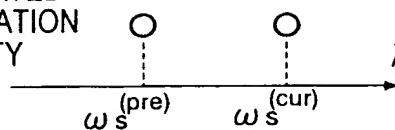


REPLACEMENT

FIG. 19A

BOTH SATISFY
→END

DESIGNATED
ATTENUATION
QUANTITY



FREQUENCY WITH SMALL ω_s
IS SOLUTION IN THIS CASE
SOLUTION IS $\omega_s(\text{pre})$

RECEIVED

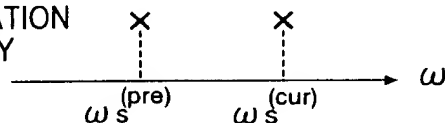
NOV 03 2004

Technology Center 2100

FIG. 19B

BOTH DO NOT SATISFY
→NO SOLUTION→END

DESIGNATED
ATTENUATION
QUANTITY

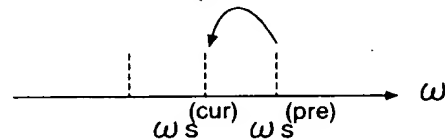
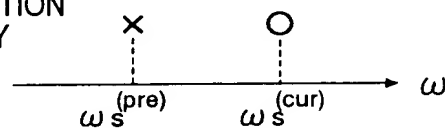


NO SOLUTION IN THE
NUMBER OF TAPS IN
THAT IT DOES NOT
SATISFY ATTENUATION
QUANTITY

FIG. 19C

ONLY ONE SIDE
SATISFIES
→FOR NEXT STEP,

DESIGNATED
ATTENUATION
QUANTITY





RECEIVED
NOV 03 2004
Technology Center 2100

FIG.20A

ONLY ONE SIDE
SATISFIES
→FOR NEXT STEP

DESIGNATED
ATTENUATION
QUANTITY

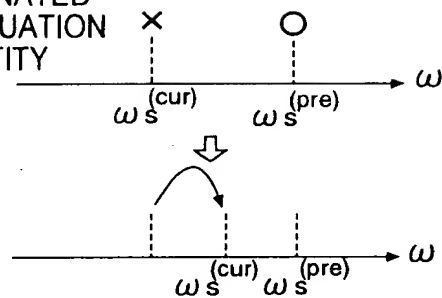
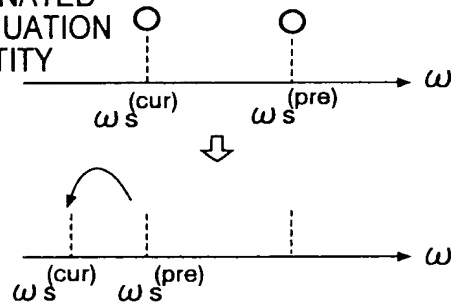


FIG.20B

BOTH SATISFY
→FOR NEXT STEP

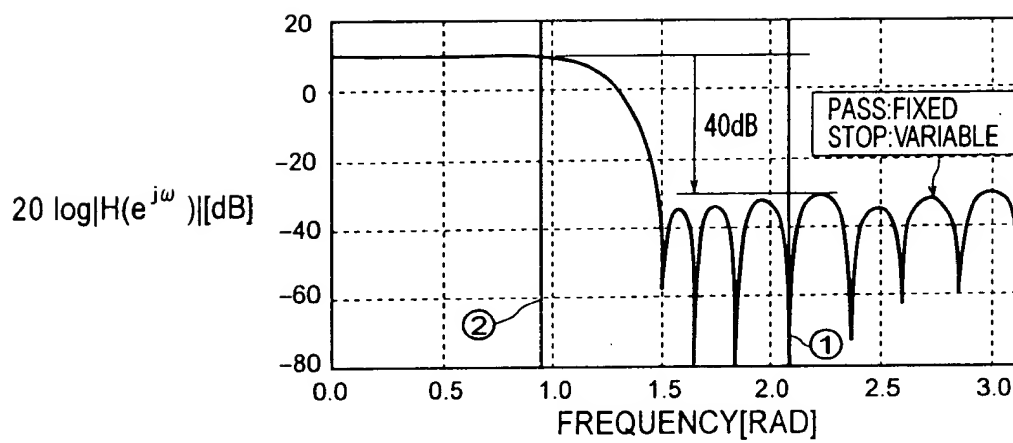
DESIGNATED
ATTENUATION
QUANTITY





RECEIVED
NOV 03 2004
Technology Center 2100

FIG.21



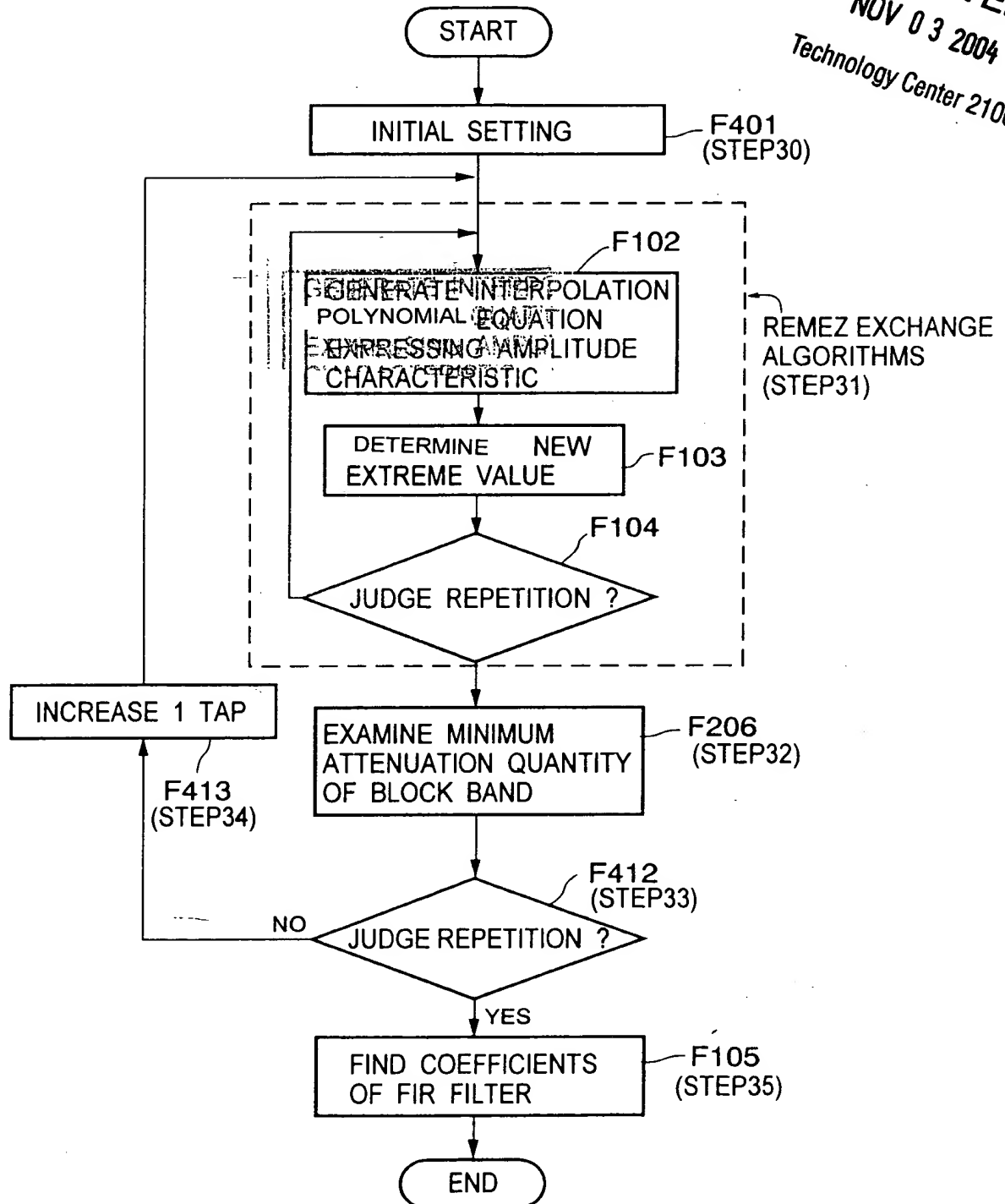


REPLACEMENT

RECEIVED
NOV 03 2004

Technology Center 2100

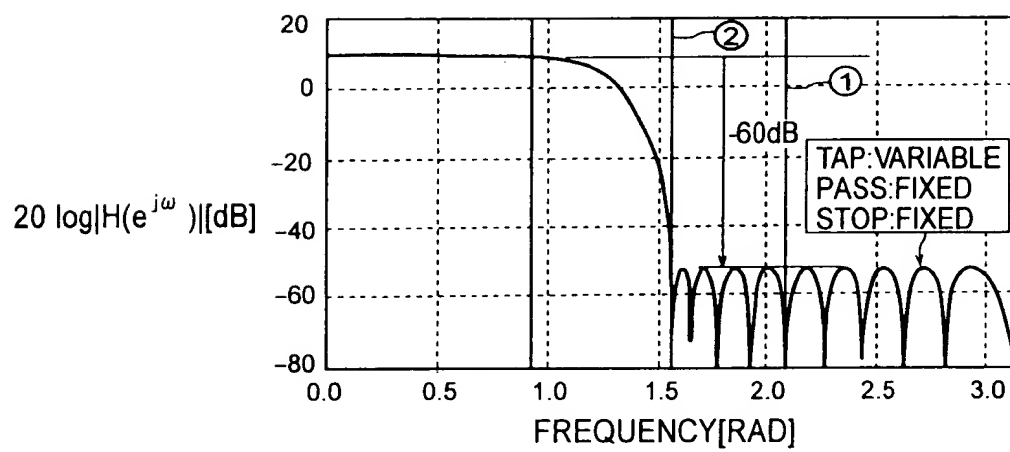
FIG.22





RECEIVED
NOV 03 2004
Technology Center 2100

FIG.23

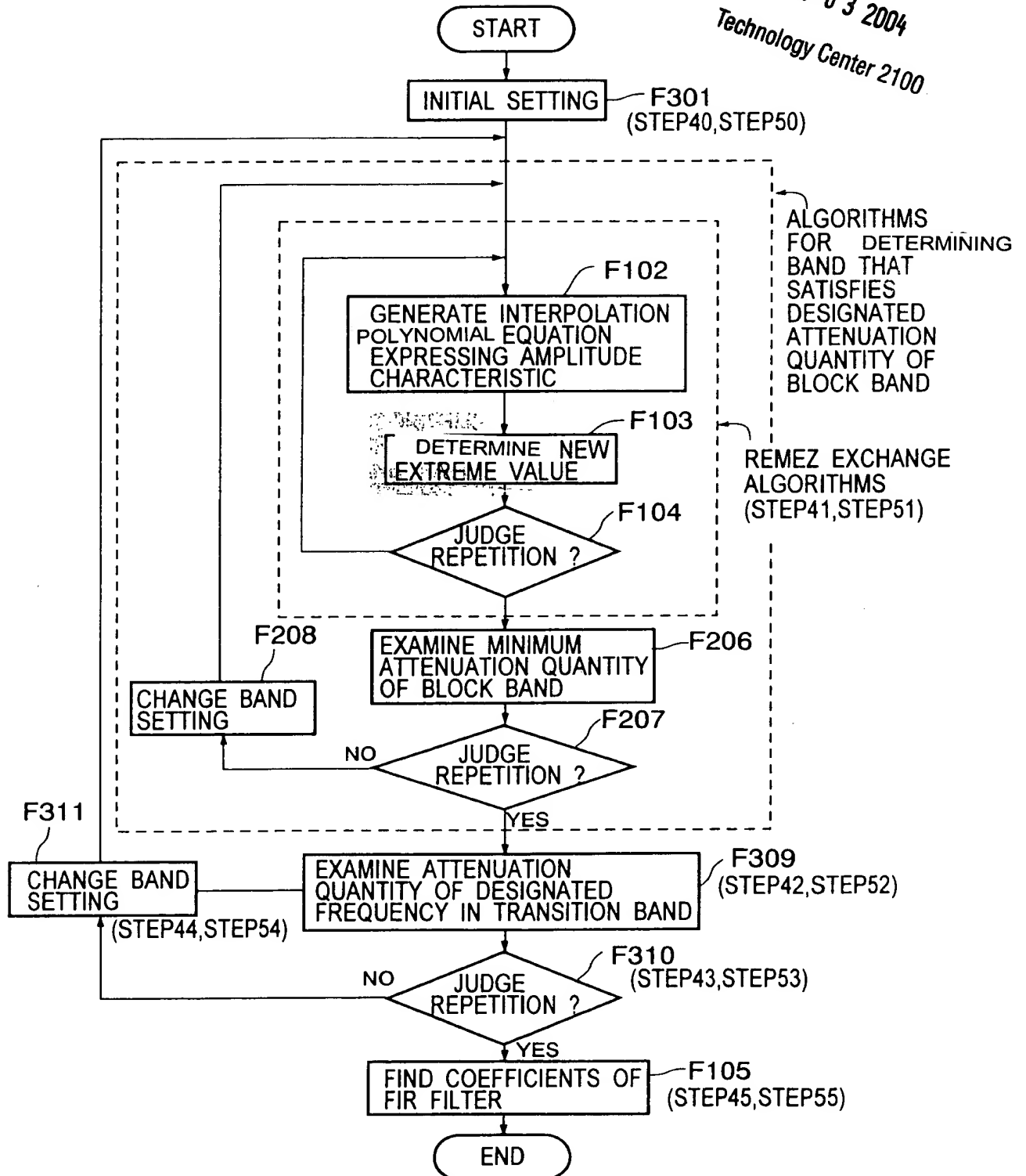




REPLACEMENT

RECEIVED
NOV 03 2004
Technology Center 2100

FIG.24





RECEIVED
NOV 03 2004
Technology Center 2100

FIG.25

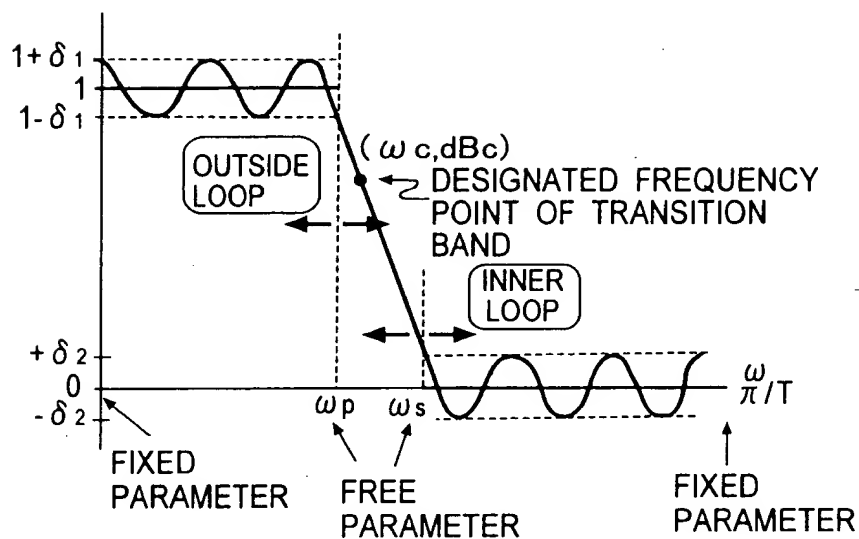
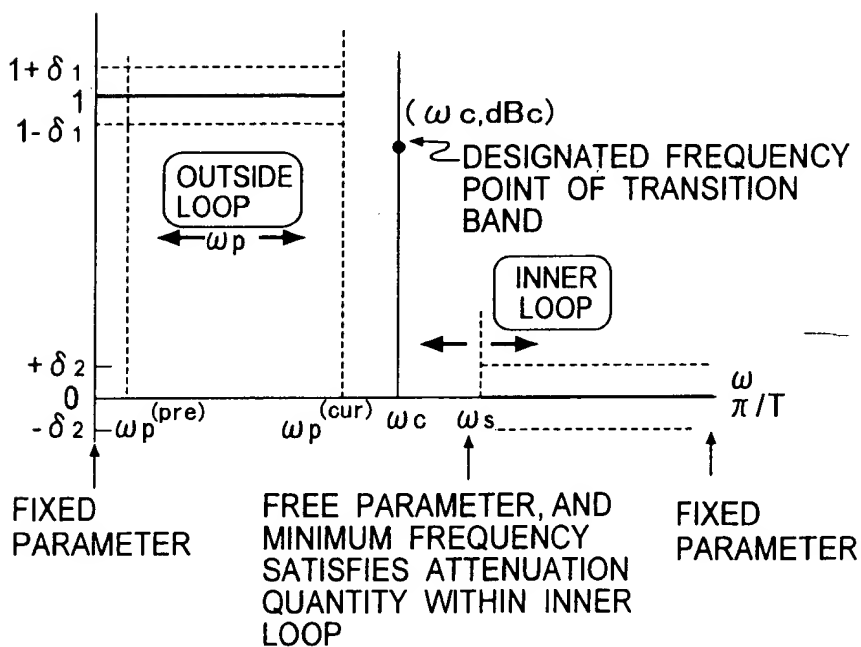


FIG.26



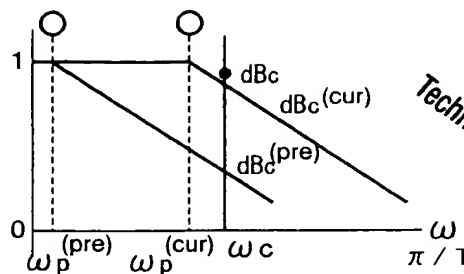


REPLACEMENT

RECEIVED
NOV 03 2004
Technology Center 2100

FIG.27A

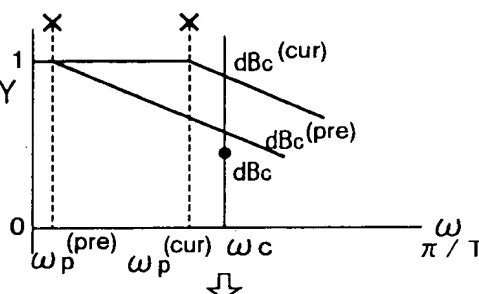
BOTH SATISFY
→END



FREQUENCY WITH LARGE ω_p
IS SOLUTION IN THIS CASE
SOLUTION IS $\omega_p^{(cur)}$

FIG.27B

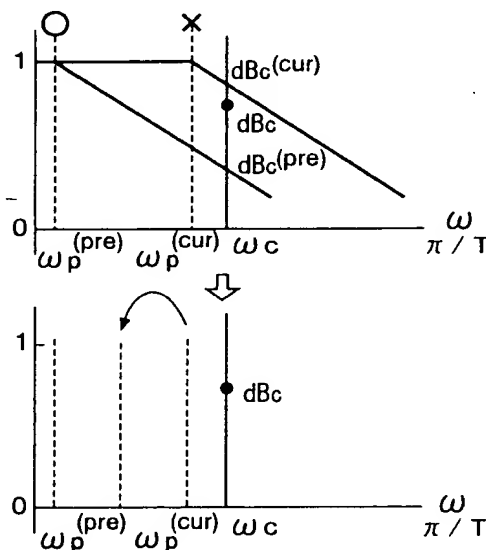
BOTH DO NOT SATISFY
→NO SOLUTION→END



NO SOLUTION IN THE NUMBER OF TAPS
IN THAT IT IS NOT PASSED THROUGH
POINT (ω_c, dBc)
OF TRANSITION BAND

FIG.27C

ONLY ONE SIDE
SATISFIES
→FOR NEXT STEP





RECEIVED
NOV 03 2004
Technology Center 2100

FIG.28A

ONLY ONE SIDE
SATISFIES
→FOR NEXT STEP

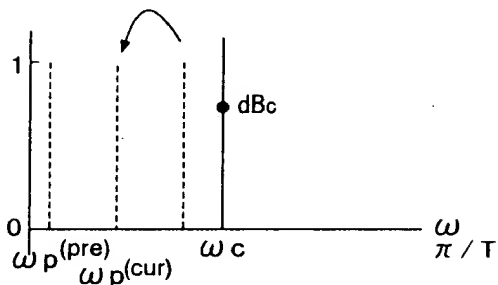
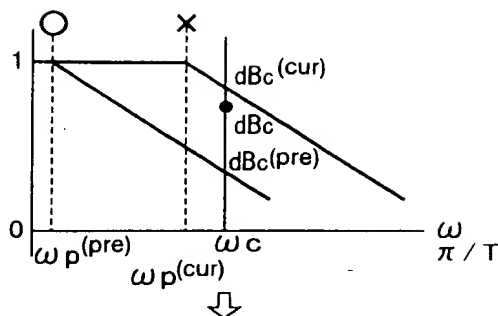
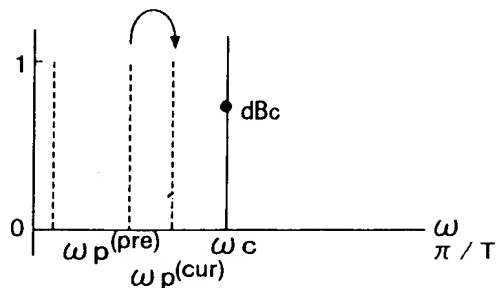
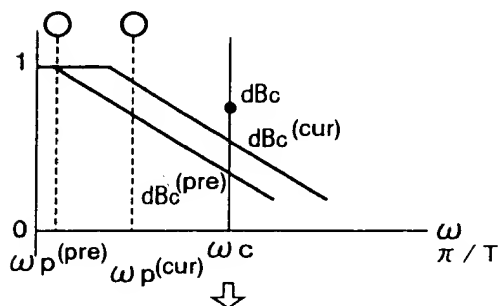


FIG.28B

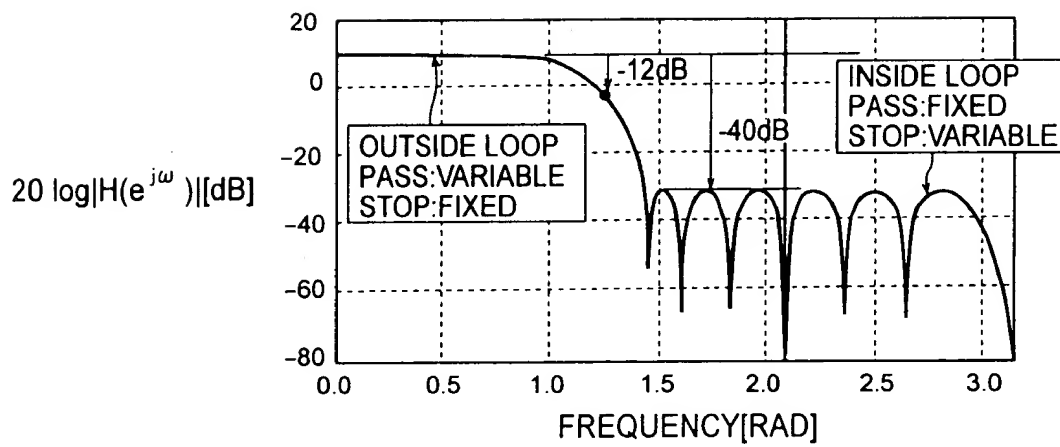
BOTH SATISFY→FOR
NEXT STEP





RECEIVED
NOV 03 2004
Technology Center 2100

FIG.29





RECEIVED
NOV 03 2004
Technology Center 2100

FIG.30

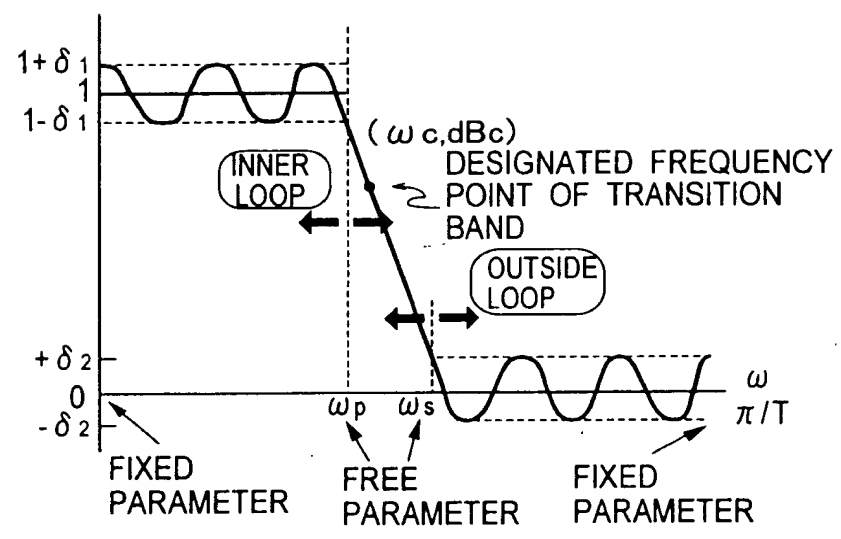
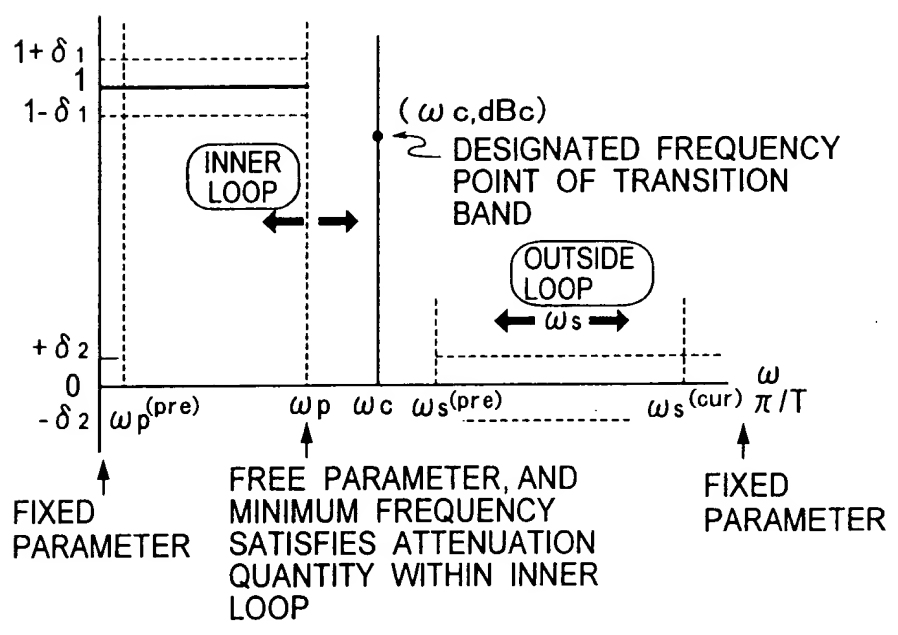


FIG.31





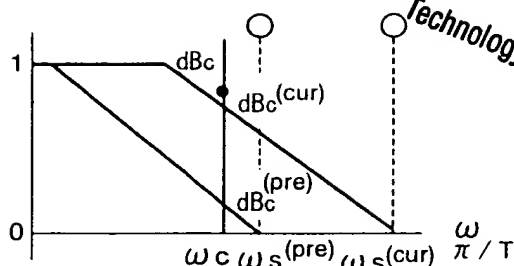
REPLACEMENT

RECEIVED
NOV 03 2004

Technology Center 2100

FIG.32A

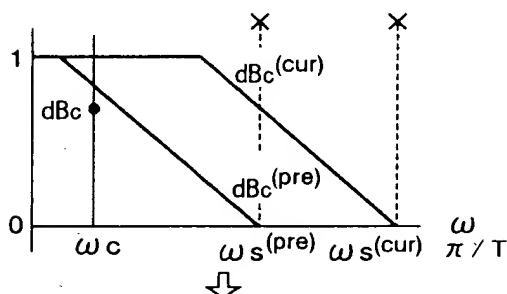
BOTH SATISFY
→END



FREQUENCY WITH LARGE ω_s
IS SOLUTION IN THIS CASE
SOLUTION IS $\omega_s(cur)$

FIG.32B

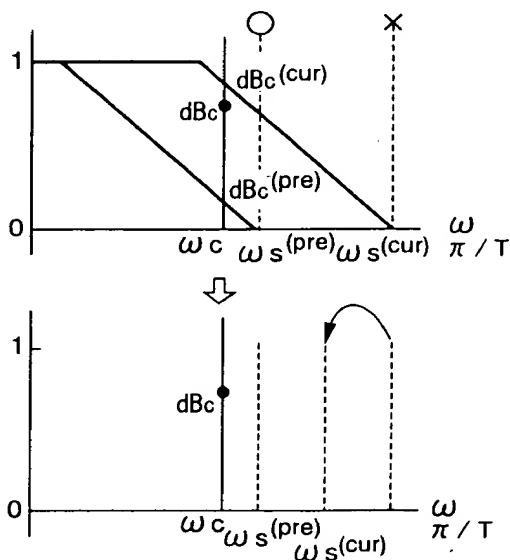
BOTH DO NOT SATISFY
→NO SOLUTION→END



NO SOLUTION IN THE NUMBER
OF TAPS IN THAT IT IS NOT
PASSED THROUGH FREQUENCY
OF TRANSITION BAND

FIG.32C

ONLY ONE SIDE
SATISFIES
→FOR NEXT STEP





RECEIVED
NOV 03 2004
Technology Center 2100

FIG.33A

ONLY ONE SIDE
SATISFIES
→FOR NEXT STEP

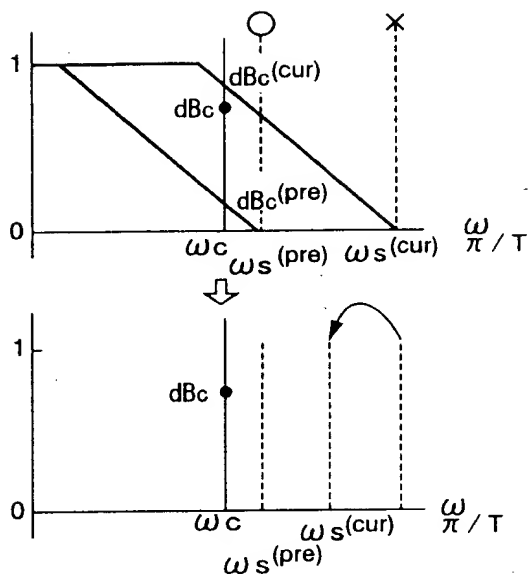
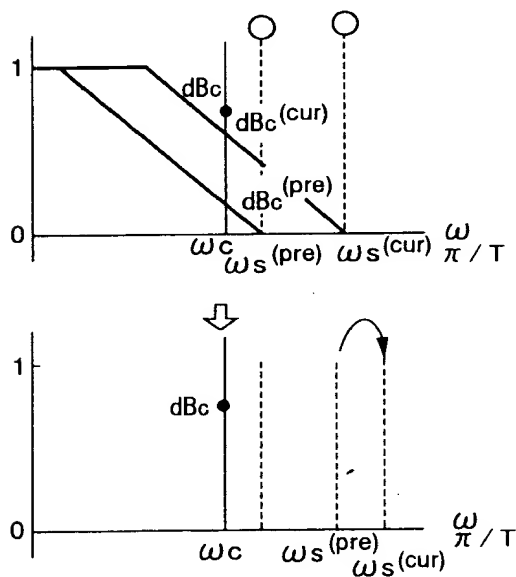


FIG.33B

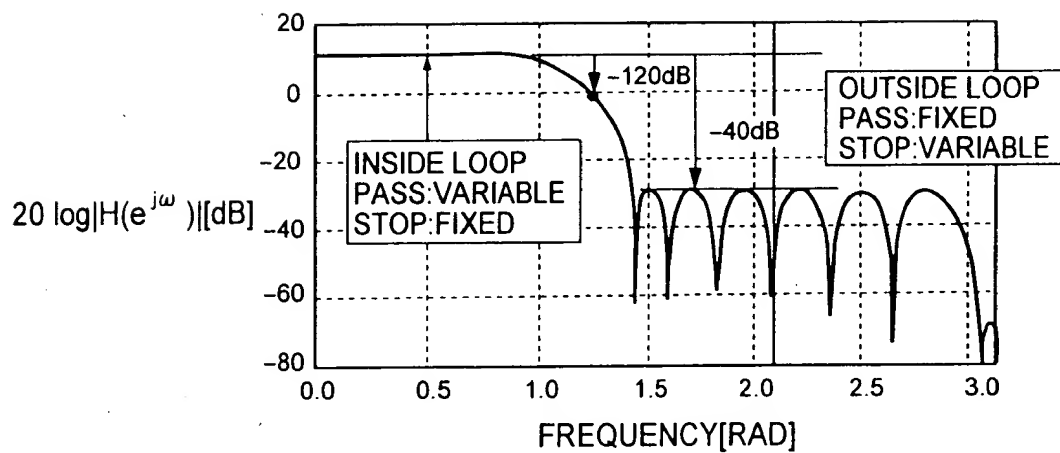
BOTH SATISFY
→FOR NEXT STEP





RECEIVED
NOV 03 2004
Technology Center 2100

FIG.34

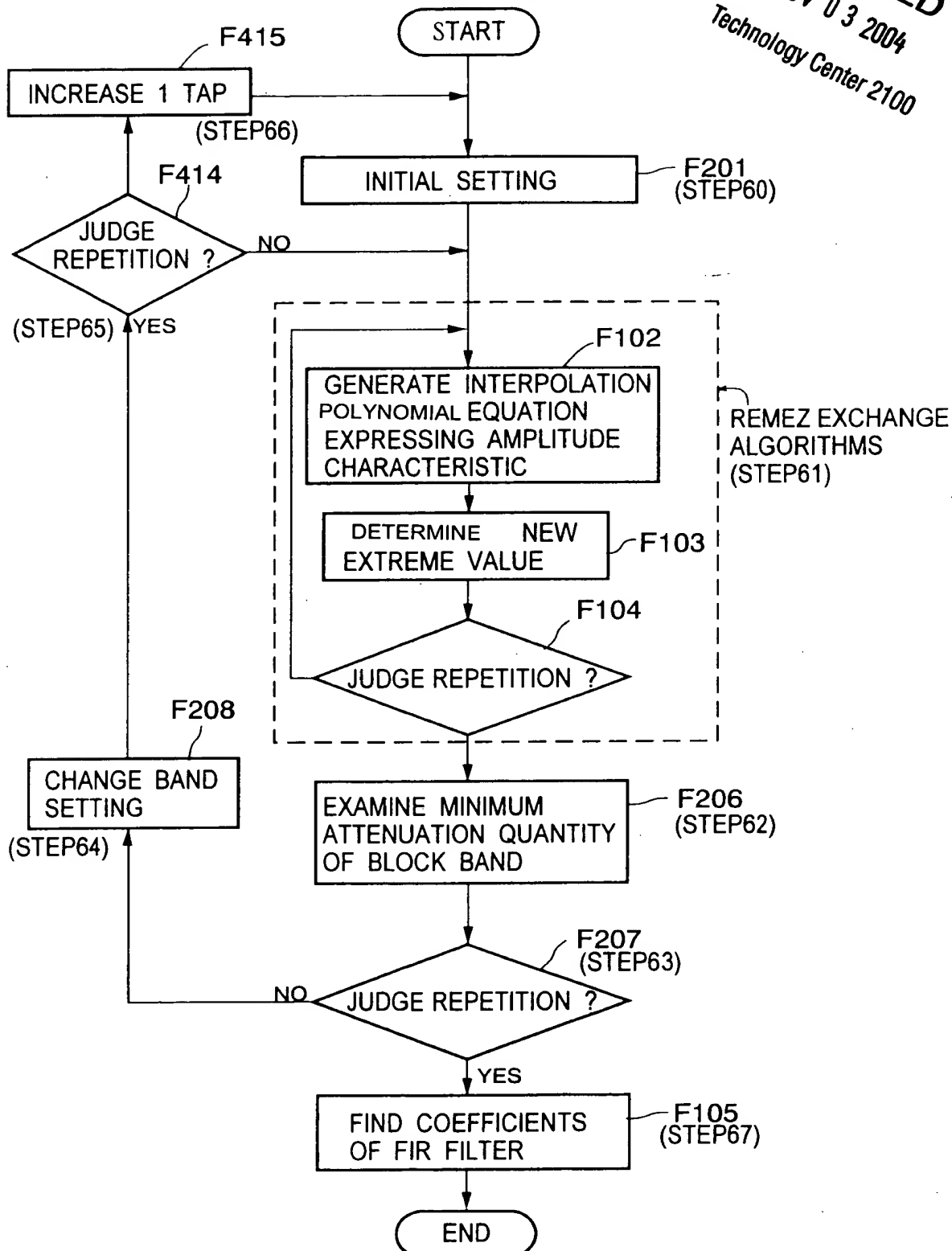




REPLACEMENT

RECEIVED
NOV 03 2004
Technology Center 2100

FIG.35





REPLACEMENT

RECEIVED
NOV 03 2004
Technology Center 2100

FIG.36

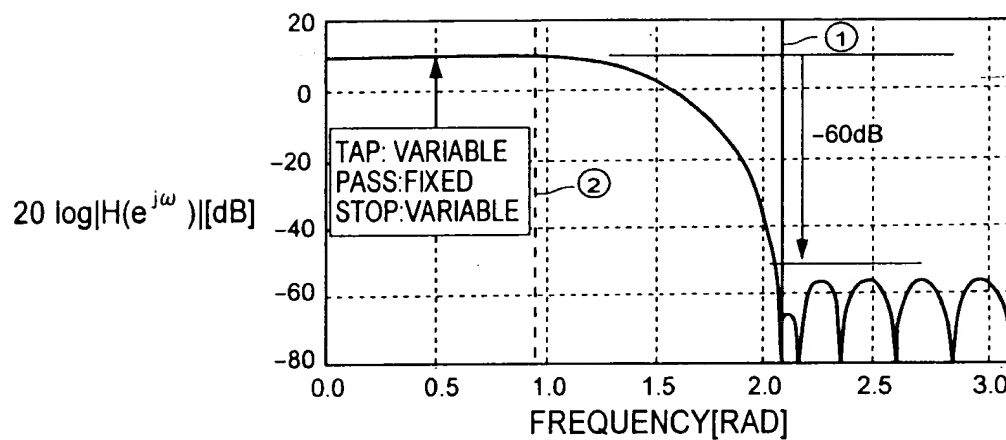


FIG.37

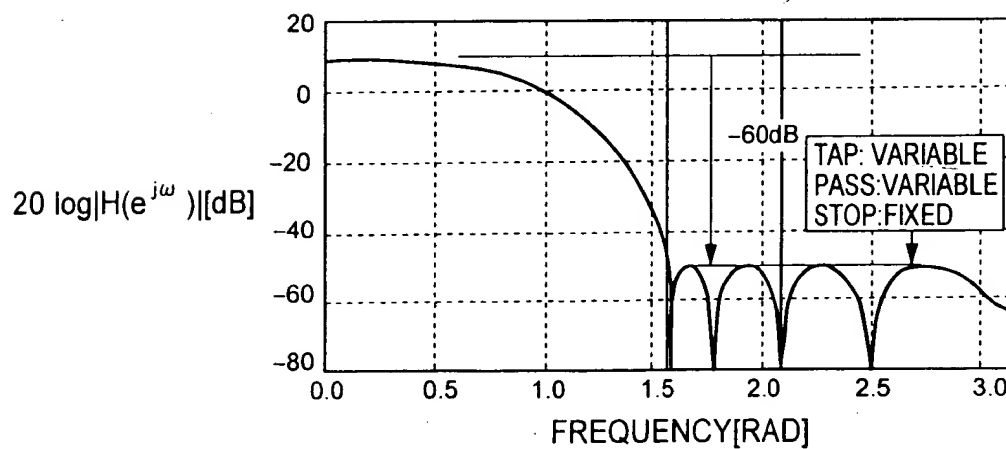
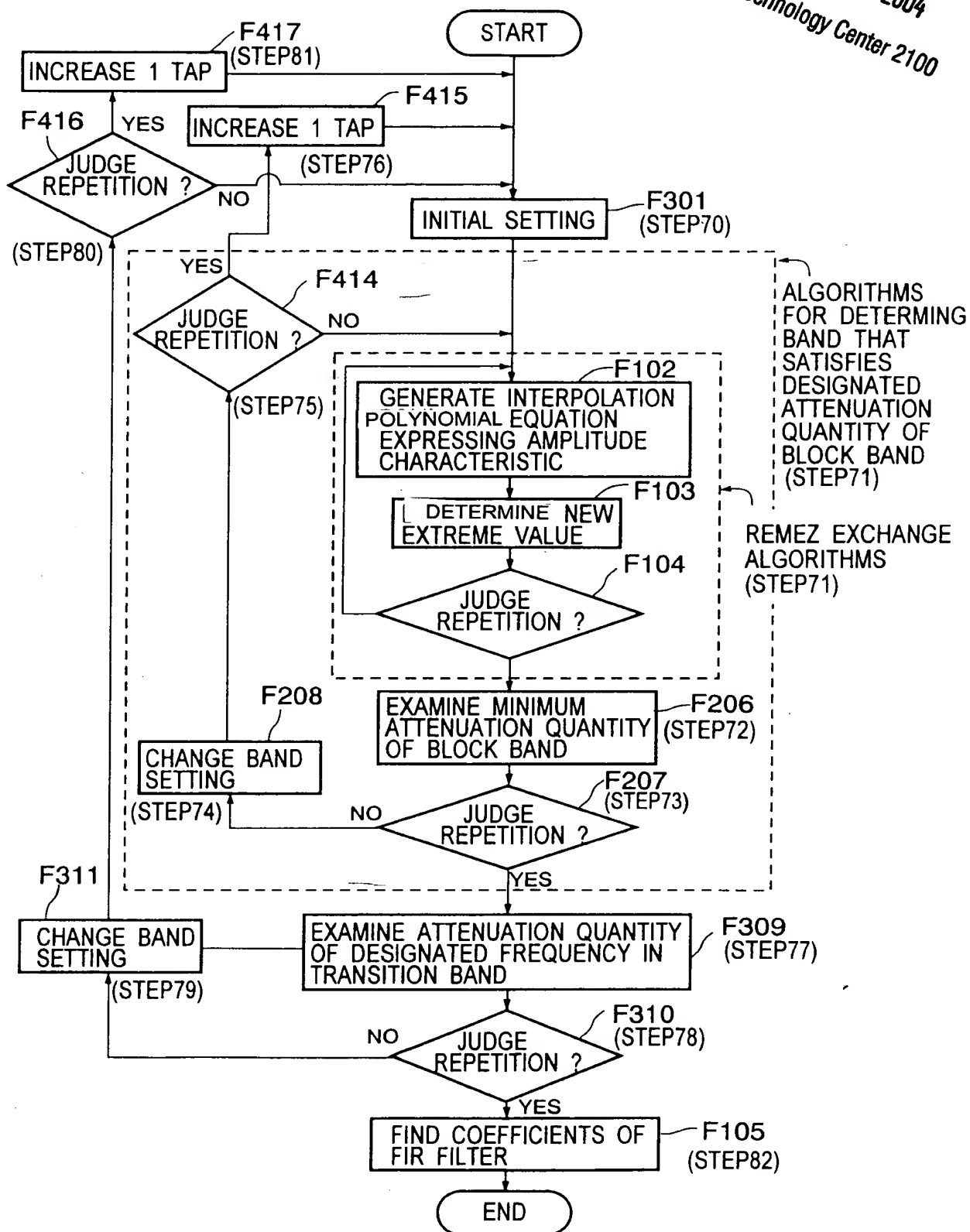


FIG.38

RECEIVED
NOV 03 2004
Technology Center 2100





RECEIVED
NOV 03 2004
Technology Center 2100

FIG.39

